

## **CLAIMS**

1. **(Currently Amended)** A method implemented on a computing device by a processor configured to execute instructions that, when executed by the processor, direct the computing device to perform acts comprising:

recording a live broadcast on a client device;

recording, on the client device, metadata associated with the live broadcast, wherein the metadata are generated by a data provider, and include[[s]] a scheduled program length, a keyword section comprising keywords associated with the live broadcast, and a timestamp indicating a unique version associated with the metadata;

identifying program details, from the recorded live broadcast itself, after recording the live broadcast;

determining if the identified program details are different from the metadata associated with the live broadcast;

updating the metadata associated with the live broadcast, in response to a determination of program details differing from the metadata associated with the live broadcast;

displaying a listing of previously recorded programs ~~to a user~~, wherein a one of the previously recorded programs is the live broadcast;

~~receiving-displaying the~~ updated metadata associated with previously recorded programs that correspond to the displayed listing of the previously recorded programs, wherein the updated metadata are generated by the data provider, indicate[[s]] an exact program length and include[[s]] a timestamp indicating a unique version associated with

the updated metadata, wherein the updated metadata are saved on the client device, and wherein the updated metadata comprise:

updated time periods associated with programs which were also recorded, and which are adjacent to the recorded live broadcast in the displayed listing, wherein two sets of metadata are displayed simultaneously in the listing, and wherein a relative ranking is displayed indicating which set of metadata ~~[[are]]~~is assumed to be more accurate; and

an updated keyword section associated with the live broadcast, wherein the updated keyword section is an update of the keyword section and contains keywords data-unknown before the live broadcast;

~~replacing the previously recorded metadata with the updated metadata; and~~

~~if a length of the recorded live broadcast is greater than the exact program length as indicated by the updated metadata, then deleting from the client device a portion of the recording that exceeds the exact program length;~~

~~wherein the recording of the live broadcast continues for longer than the scheduled program length and the updated metadata includes information generated after the live broadcast is completed.~~

**2. (Previously Presented)** A method as recited in claim 1 further comprising requesting updated metadata associated with the live broadcast periodically.

**3. (Previously Presented)** A method as recited in claim 1 wherein the recording of the live broadcast continues for about 133% of the scheduled program length.

**4. (Previously Presented)** A method as recited in claim 1 further comprising requesting updated metadata associated with the live broadcast from a content server, wherein the content server is coupled to a plurality of data providers and the content server automatically receives updates from the plurality of data providers.

**5. (Previously Presented)** A method as recited in claim 1 further comprising:  
receiving a request to display information regarding the live broadcast;  
displaying at least a portion of the information contained in the updated metadata;  
receiving a request to display all of the information contained in the updated metadata; and  
displaying all of the information contained in the updated metadata.

**6. (Canceled)**

**7. (Canceled)**

**8. (Previously Presented)** A method as recited in claim 1 further comprising:  
receiving a second updated metadata;  
determining whether the second updated metadata is more current than the previously received updated metadata;

if the second updated metadata is more current than the previously received updated metadata, then replacing the previously received updated metadata with the second updated metadata; and

if the second updated metadata indicates a second exact program length that is shorter than the exact program length indicated in the previously received updated metadata, then deleting from the client device a portion of the recording that exceeds the second exact program length.

**9. (Previously Presented)** A method as recited in claim 8 further comprising discarding the second updated metadata if the previously received updated metadata is more current than the second updated metadata, and maintaining the previously received updated metadata as the current metadata used by the client device.

**10. (Original)** A method as recited in claim 1 further comprising communicating the updated metadata to at least one client device.

**11. (Previously Presented)** A method as recited in claim 1 wherein the live broadcast is a sporting event.

**12. (Original)** One or more computer-readable memories containing a computer program that is executable by a processor to perform the method recited in claim 1.

**13. (Currently Amended)** A method implemented on a computing device by a processor configured to execute instructions, that when executed by the processor direct the computing device to perform acts comprising:

recording program content;

receiving metadata associated with the program content;

identifying program details from the program content itself;

determining if the identified program details are different from the metadata associated with the program content;

updating the metadata associated with the program content, in response to a determination of program details differing from the metadata associated with the program content;

displaying a listing of previously recorded programs on a client device;

~~receiving metadata associated with program content at a content server;~~

~~providing the received metadata to the client device; and~~

~~receiving displaying the~~ updated metadata associated with the program content at the content server, wherein the updated metadata comprises information generated after a broadcast of the program content is completed, wherein the updated metadata are saved on the client device, and wherein the updated metadata comprise:

updated time periods associated with programs which were also recorded, and which are adjacent to the recorded live broadcast in the displayed listing, wherein two sets of metadata are displayed simultaneously in the listing, and wherein a relative ranking is displayed indicating which set of metadata are assumed to be more accurate; and

an updated a keyword section associated with the live broadcast, wherein the updated keyword section ~~contains~~ is updated to contain keywords data unknown before the live broadcast.

**14. (Canceled)**

**15. (Original)** A method as recited in claim 13 wherein determining whether the updated metadata is more current than the previously received metadata includes comparing a timestamp associated with the updated metadata to a timestamp associated with the previously received metadata.

**16. (Original)** A method as recited in claim 13 further comprising storing the metadata associated with program content after receiving the metadata.

**17. (Original)** A method as recited in claim 13 further comprising storing the updated metadata if the updated metadata is more current than the previously received metadata.

**18. (Original)** A method as recited in claim 13 further comprising requesting updated metadata associated with the program content periodically.

**19. (Canceled)**

**20. (Original)** One or more computer-readable memories containing a computer program that is executable by a processor to perform the method recited in claim 13.

**21. (Currently Amended)** One or more computer-readable media having stored thereon a computer program that, when executed by one or more processors, causes the one or more processors to:

receive a request to display a listing of previously recorded programs;

identify metadata associated with content corresponding to previously recorded programs displayed in the listing, including metadata obtained from examination of the previously recorded programs; and

determine whether other metadata associated with the content is available, wherein the other metadata comprises information generated after a broadcast of the content is completed, wherein the other metadata are saved on a client device, and wherein the other metadata comprise:

updated time periods associated with programs which were also recorded, and which are adjacent to the recorded live broadcast in the displayed listing, wherein conflicts between metadata associated with the content and the other metadata are resolved by simultaneous display, on the listing of previously recorded programs, of two sets of metadata which provide conflicting information are displayed simultaneously in the listing, and wherein a relative ranking is displayed indicating which set of metadata ~~[[are]]~~is assumed to be more accurate; and

an updated a keyword section associated with the live broadcast, wherein the updated keyword section ~~contains~~ is updated to contain keywords data unknown before the live broadcast.

**22. (Previously Presented)** One or more computer-readable media as recited in claim 21 wherein resolving the conflict comprises maintaining both the identified metadata and the other metadata and the display of the content simultaneously displays both the identified metadata and the other metadata.

**23. (Canceled)**

**24. (Canceled)**

**25. (Currently Amended)** An apparatus comprising:

- a storage device;
- a processor coupled to the storage device, wherein the processor is configured to:
  - record broadcast content and metadata associated with the broadcast content on the storage device;
  - generate a listing of available content based on metadata stored on the storage device;
  - display the listing of available content on a display device;



request updated metadata associated with the broadcast content that corresponds to the listing of available content displayed on the display device, wherein the request is made at regular intervals;

receive updated metadata associated with the broadcast content, wherein the updated metadata comprises information generated after a broadcast of the broadcast content is completed; and

identifying program details by examination of the recorded broadcast content;

determining if the identified program details are different from the metadata associated with the broadcast content;

update replace the previously recorded metadata with the updated metadata if ~~the updated metadata are more current than previously recorded metadata~~ the program details are different from the metadata associated with the broadcast content, wherein the updated metadata are saved on the storage device, and wherein the updated metadata comprise:

updated time periods associated with programs which were also recorded, and which are adjacent to the recorded [[live]] broadcast content in the displayed listing, wherein conflicts between metadata associated with the live broadcast and the received updated metadata are resolved by simultaneous display, on the listing of previously recorded programs, of two sets of metadata which provide conflicting information are displayed ~~simultaneously in the listing~~, and wherein a relative ranking is displayed

indicating which set of metadata ~~[[are]]~~is assumed to be more accurate;  
and

~~an updated a~~ keyword section associated with the live broadcast,  
wherein the ~~updated~~ keyword section ~~contains~~ is updated to contain  
keywords data-unknown before the live broadcast;

a two-way communication interface coupled to the processor, wherein the communication interface is configured to receive updated metadata from a plurality of data providers coupled to the apparatus, and wherein the updated metadata are communicated using simple object access protocol (SOAP) messages transported using hypertext transfer protocol (http); and

a modem coupled to the processor, wherein the modem comprises at least one of a Public Switched Telephone Network (PSTN) modem, a Digital Subscriber Line (DSL) modem, or a cable modem.

**26-28. (Canceled)**